

SABIC Innovative Plastics NORYL WCD855 PPE-TPE (Asia Pacific)

Category : Polymer , Thermoplastic , Elastomer, TPE , Polyphenylene Ether/PPO

Material Notes:

Flexible and non-halogenated flame retardant extrusion grade intended for evaluation in applications such as cable jacket of UL 62 SPE and NISPE configurations. Flame retardant performance capable of meeting UL 1581 VW-1 requirement. 90C or 105C temperature rating as defined by UL 62 TPE category. 85 Shore A hardness. Processing typically conducted on standard extrusion equipment. UL 1581 tests conducted on 2.0 mm wire with 0.12 mm x 20 stranded copper conductor.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-NORYL-WCD855-PPE-TPE-Asia-Pacific.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.01 g/cc	1.01 g/cc	ASTM D792
Melt Flow	16 g/10 min @Load 10.0 kg, Temperature 250 Â°C	16 g/10 min @Load 22.0 lb, Temperature 482 Â°F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	85	85	30S reading; ASTM D2240
Tensile Strength at Break	16.0 MPa	2320 psi	50 mm/min; ISO 527
	16.0 MPa	2320 psi	Type I, 50 mm/min; ASTM D638
	22.0 MPa	3190 psi	after 7days @136Â°C; UL 1581
	23.0 MPa	3340 psi	UL 1581
Elongation at Break	250 %	250 %	50 mm/min; ISO 527
	251 %	251 %	after 7days @136Â°C; UL 1581
	260 %	260 %	Type I, 50 mm/min; ASTM D638
	308 %	308 %	UL 1581
Flexural Modulus	0.0400 GPa	5.80 ksi	12.5 mm/min; ISO 178
	0.0600 GPa	8.70 ksi	12.5 mm/min, 100 mm span; ASTM D790
Heat Distortion	5.0 % @Load 0.250 kg, Temperature 121 Â°C	5.0 % @Load 0.551 lb, Temperature 250 Â°F	UL 1581

Thermal Properties	Metric	English	Comments
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Thermal Properties	Metric	English	Comments
Oxygen Index	26 %	26 %	ISO 4589
Glow Wire Test	825 Â°C	1520 Â°F	IEC 60695-2-13
	850 Â°C	1560 Â°F	IEC 60695-2-12
	@Thickness 3.00 mm	@Thickness 0.118 in	

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.90e+16 ohm-cm	1.90e+16 ohm-cm	ASTM D257
Dielectric Constant	2.4	2.4	ASTM D150
	@Frequency 1.00e+6 Hz	@Frequency 1.00e+6 Hz	
Dielectric Strength	25.0 kV/mm	635 kV/in	in oil; IEC 60243-1
	@Thickness 2.00 mm	@Thickness 0.0787 in	
Dissipation Factor	0.0070	0.0070	ASTM D150
	@Frequency 1.00e+6 Hz	@Frequency 1.00e+6 Hz	
Comparative Tracking Index	600 V	600 V	IEC 60112

Descriptive Properties	Value	Comments
Smoke Density on 0.5mm plaque, Flame, Ds, max	110	ASTM E 662
Smoke Density on 0.5mm plaque, Non-flame, Ds, max	47	ASTM E 662
VW-1	Pass	UL 1581

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